Derwent (NPL)

DERWENT-	1993-259949
ACC-NO:	
DERWENT-	200047
WEEK:	
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1	Determination of propagation times for optical fibre bidirectional communications system - obtaining timing intervals for reference markers to allow compensation for differences between near and far stations

INVENTOR: ALLAIRE, S; DORE, P; MARCEL, F; SALLAERTS, D

PATENT- ALCATEL CIT SA[CITC] , ALCATEL CIT[CITC] , ALCATEL BELL

ASSIGNEE: NV[COGE] , BELL TELEPHONE MFG CO NV[INTT] , ALCATEL

NV[COGE]

PRIORITY DATA: 1992EP-0400266 (January 31, 1992)

PATENT-FAMILY:				
PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 555596 A1	August 18, 1993	F	012	H04B 007/24
FI 105432 B1	August 15, 2000	N/A	000	H04J 014/08
			27/2	
AU 9332077 A	August 5, 1993	N/A	000	H04B 007/204
CA 2088461 A	August 1, 1993	F	000	H04B 017/00
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FI 9300340 A	August 1, 1993 🦸	N/A	000	H04J 000/00
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JP 06014084 A	January 21, 1994	N/A	000	H04L 029/08

US 5317571 A	May 31, 1994	N/A	010	H04J 003/06
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AU-661638 B	July 27, 1995	N/A	000	H04B 007/204
EP 555596 B1	April 9, 1997	F	014	H04B 007/24
DE 69218913 E	May 15, 1997	N/A	000	H04B 007/24

Search Notes

9/2/2005, EAST Version: 2.0.1.4

ES	2099228	T3 Ma	y 16,	1997	N/A	000	H04B	007/24
CA	2088461	C Ju	ne 10,	1997	F	000	H04B	017/00

DESIGNATED-STATES: AT BE CH DE ES FR GB IT LI NL SE AT BE CH DE ES FR GB IT LI NL SE

CITED DOCUMENTS: EP 188117; EP 208021; FR 2636482; GB 2095516

APPLICATION-I	ATA:		A CONTRACTOR	\$ 8 2 × 3		<u> </u>	4 3
PUB-NO	APPL-DES	CRIPTOR	APPL-NO		APPL-DAT	'E .	
EP. 555596A1.	N/A	A. 2. 2.	1992EP-0	4,00266	January	314	1992
FI 105432B1	N/A		1993FI-0	000340	January	27	1993
FI 105432B1	Previous	Publ.	FI 93003	340	N/A	An An	
AU 9332077A	N/A		1993AU-0	0032077	January	28,	1993
CA 2088461A	N/A		1993CA-2	2088461	January	29,	1993
FI 9300340A	N/A		1993FI-(000340	January	27,	1993
JP 06014084A	N/A		1993JP-(013839	January	29,	1993
US 5317571A	N/A		1993US-0	011147	January	29,	1993
AU 661638B	N/A	9 7 7	1993AU-0	0032077	January	28,	1993
AU 661638B	Previous	Publ.	AU 93320	77	N/A	eyfor Ki	
EP 555596B1	N/A		1992EP-0	0400266	January	31,	1992
DE 69218913E	N/A		1992DE-0	618913	January	31,	1992
DE 69218913E	N/A		1992EP-0	0400266	January	31,	1992
DE 69218913E	Based or	l e	EP 55559	96	N/A		<i>2</i> (€
ES 2099228T3	N/A		1992EP-0	400266	January	31,	1992
ES 2099228T3	Based or		EP 55559	96.	N/A		
CA 2088461C	N/A	2 2 3	1993CA-2	2088461	January	29,	1993

INT-CL H04B007/204, H04B007/24 , H04B010/24 , H04B017/00 , H04J000/00 , H04J003/00 , H04J003/02 , H04J003/06 , H04J014/08 , H04L005/14 , H04L005/16 , H04L029/08

ABSTRACTED-PUB-NO: EP 555596A

BASIC-ABSTRACT:

The procedure includes carrying out a measurement of the time interval between a reference information signal transmission time, and a position signal (SW) transmitted by a distant station (ONT) at a central station.

Such measurements are compared with a period of time which represents a position window (Tf) in order to determine propagation time between the stations.

USE/ADVANTAGE - Allows propagation time determination for time division multiple access systems using optical fibres communications with passive couplers, permitting compensation for different propagation times.

ib

ABSTRACTION PUBLINOS EP 555596B

EQUIVALENT-ABSTRACTS:

Method for determining the transmission time between remote terminal stations (ONT) and a central terminal station (OLT) in a point-tomulti[point bidirectional transmission network, said method comprising measurement by the central station of the time interval between a reference time for sending of information signals by said central station and reception by said central station of a location signal (SW) sent by a remote station after a time-delay starting from a reference time for reception of said information signals by said remote station so that said location signal is received by said central station in a particular location window not assigned to reception by said central station of information signals, the location window repeating in a regular manner, characterised in that, for a given remote station, said time-delay is variable from an initial value (Tri) such that if the location signal is not received in the first location window, said location signal sending by the remote station is then repeated with a different time-delay until said location signal is received by said central station in one of the successive location windows.

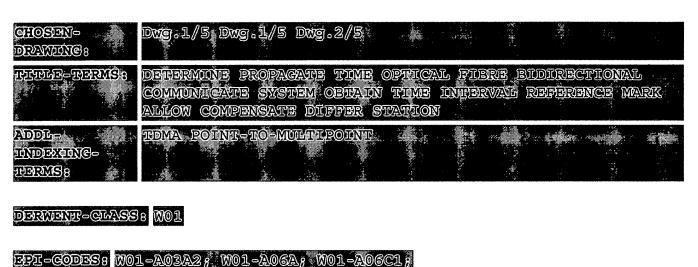
US 5317571A

The method for determining the transmission time between remote terminals and a central station in a point-to-multipoint bidirectional transmission network, involves measuring by the central

station of a time interval between a first reference time for sending of information signals and reception by the central station of a location signal sent by a remote station after a time-delay starting from a second reference time for reception of the information signals by the remote station. The location signal is received by the central station in a predetermined location window, which has a width and which is not assigned to reception by the central station of information signals.

For a given remote station, the time delay is varied from an initial value such that the location signal is not necessarily received in the window. When the location signal is not received in the window, it is repeatedly transmitted the remote station until the location signal is received by the central station in the window.

USE/ADVANTAGE - Suits half-duplex or simplex transmissions.





PATENT-FAMILY:								
PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC				
EP 555596 A1	August 18, 1993	F	012	H04B 007/24				
FI 105432 B1	August 15, 2000	N/A	000	H04J 014/08				
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AU 9332077 A	August 5, 1993	N/A	000	H04B 007/204				
				3.				
CA 2088461 A	August 1, 1993	F	000	H04B 017/00				
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FI 9300340 A	August 1, 1993	N/A	000	H04J 000/00				
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JP 06014084 A	January 21, 1994	N/A	000	H04L 029/08				
uovica vicia a	Ma	N/A		FT04 T 2002 /00				
US 33 1/19 //1- A	May 31, 1994	N/A	010	H04J_003/06				
<u> </u>	July 27, 1995	N/A		H04B 007/204				
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EP 555596 B1	April 9, 1997	F - \$2.		H04B 007/24				
		2						
DE 69218913 E	May 15, 1997	N/A	000	H04B 007/24				
46 46 46								
ES 2099228 T3	May 16, 1997	N/A	000	H04B 007/24				
CA 2088461 C	June 10, 1997	F	000	H04B 017/00				
			<i>M</i> 2	3 33.				

DESIGNATED- AT BE CH DE ES FR GB IT LI NL SE AT BE CH DE ES FR GB IT LI NL SE AT BE CH DE ES FR

CITED-DOCUMENTS: EP 188117; EP 208021 ; FR 2636482 ; GB 2095516

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"5317571".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 15:33
Ľ2	2	"5043982".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 15:26
L3	1	"5049982".PN.	USPAT; USOCR	OR -	OFF	2005/09/02 15:29
L4	1	"5048009".PN.	USPAT; USOCR	OR	OFF	2005/09/02 15:29
L5	1	"4811338".PN.	USPAT; USOCR	OR	OFF	2005/09/02 15:30
L6	1	"4800560".PN.	USPAT; USOCR	OR	OFF	2005/09/02 15:30
L7	1	"4694453".PN.	USPAT; USOCR	OR	OFF	2005/09/02 15:30
L8	1	"4569042".PN.	USPAT; USOCR	OR	OFF	2005/09/02 15:31
L9	1	"4472802".PN.	USPAT; USOCR	OR	OFF	2005/09/02 15:31
L10	22103	"propagation delay"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 15:33
L11	2719	10 and "370"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 15:34
L12	1707	10 and "375"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 15:34

L13	217	11 and ("greatest delay" or "maximum delay")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 15:35
L14	7	13 and ("minimum delau" or " least delay")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 15:49
L15	116	12 and ("greatest delay" or "maximum delay")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 15:35
L16	3	15 and ("minimum delau" or " least delay")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 15:35
L17	3	14 and MAP	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 15:45
L18	1	("shortest propagation delay" and IMR and MAP and TDMA)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 15:46
L19	3	("shortest propagation delay" and TDMA)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 15:50
L20	1	14 and (offset near20 clock)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 15:49

L21	60556	"375"/\$.ccls.("shortest propagation delay" and TDMA)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 15:50
L22		"375"/\$.ccls. and ("shortest propagation delay" and TDMA)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 15:50
L23	3	"370"/\$.ccls. and ("shortest propagation delay" and TDMA)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 15:51
L24	348	370/508,519.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 15:51
L25	25	24 and "time offset"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 15:51
L26	11	25 and (propagation adj delay)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 15:52
L27	2	25 and (short\$2 same (propagation adj delay))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 15:52
L28	1	"4797878".PN.	USPAT; USOCR	OR	OFF	2005/09/02 15:53
L29	1	"4726017".PN.	USPAT; USOCR	OR	OFF	2005/09/02 15:53
L30	1	"4773065".PN.	USPAT; USOCR	OR	OFF	2005/09/02 15:53
L31	1	"4694453".PN.	USPAT; USOCR	OR	OFF	2005/09/02 15:54

On the delay in a multiple-access system with large propagation delay

Hajek, B.; Likhanov, N.B.; Tsybakov, B.S.; Information Theory, IEEE Transactions on Volume 40, Issue 4, July 1994 Page(s):1158 - 1166 Digital Object Identifier 10.1109/18.335959

> <u>AbstractPlus</u> | Full Text: PDF(716 KB) IEEE JNL

10. Repeater insertion in RLC lines for minimum propagation delay

Ismail, Y.I.; Friedman, E.G.; Circuits and Systems, 1999. ISCAS '99. Proceedings of the 1999 IEEE International Symposium on Volume 6, 30 May-2 June 1999 Page(s):404 - 407 vol.6 Digital Object Identifier 10.1109/ISCAS.1999.780180

> <u>AbstractPlus</u> | Full Text: PDF(384 KB) IEEE **CNF**

14. Propagation delay model of a current driven RC chain for an optimized design

Palumbo, G.; Poli, M.;

Circuits and Systems I: Fundamental Theory and Applications, IEEE Transactions on [see also Circuits

and Systems I: Regular Papers, IEEE Transactions on]

Volume 50, Issue 4, April 2003 Page(s):572 - 575

Digital Object Identifier 10.1109/TCSI.2003.809805

AbstractPlus | References | Full Text: PDF(358 KB) IEEE JNL

15. Propagation delay model of current driven RC chain

Palumbo, G.; Poli, M.;

Electronics, Circuits and Systems, 2002. 9th International Conference on

Volume 2, 15-18 Sept. 2002 Page(s):619 - 622 vol.2

Digital Object Identifier 10.1109/ICECS.2002.1046245

AbstractPlus | Full Text: PDF(352 KB) IEEE CNF

21. On the delay in a multiple access system with large propagation delay

Hajek, B.; Weller, T.; Information Theory, 1994. Proceedings., 1994 IEEE International Symposium on 27 June-1 July 1994 Page(s):404 Digital Object Identifier 10.1109/ISIT.1994.394615

> <u>AbstractPlus</u> | Full Text: PDF(76 KB) IEEE CNF

Interference Search

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	87721	"370"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 16:35
L2	2	1 and ("propagation delay" same "upstream channel").clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 16:36
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L5	0	"375"/\$.ccls. and ("propagation delay" same "upstream channel"). clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 16:37
L6	0	"375"/\$.ccls. and ("propagation delay" same remote near5 device). clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 16:37
L7	. 1	"370"/\$.ccls. and ("propagation delay" same remote near5 device). clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 16:38
L8	927	(("greatest delay" or "maximum delay") same ("least delay" or	US-PGPUB; USPAT;	OR	OFF	2005/09/02 16:39
	7. S.	"minimum delay"))	USOCR; EPO; JPO; DERWENT;			
L9	6	8 and (demodulate\$1 near5 upstream)	IBM_TDB US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 16:41

L10	1	9 and (MAP same "starting point")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 16:41
L11	6	8 and (demodulate\$1 near5 upstream).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 16:41
L12	1	9 and (MAP same "starting point"). clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 16:41
L13	1	("clock output" near20 "programmable offset")	US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	OFF	2005/09/02 16:42
			DERWENT; IBM_TDB			
L14	1	("clock output" near20 "programmable offset").clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/02 16:42